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New or interesting Dermestidae (Coleoptera) from Jordan and Israel

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Abstract

A new dermestid species from Jordan and Israel, *Trogoderma schawalleri* **n. sp.**, is described. Seven species are recorded from Jordan for the first time: *Attagenus quadrimaculatus* Kraatz, 1858, *A. simonis* Reitter, 1881, *Anthrenus* (*Anthrenus*) *delicatus* Kiesenwetter, 1851, *A.* (*A.*) *munroi* Hinton, 1943, *Globicornis* (*Globicornis*) *picta* (Küster, 1851), *Orphilus beali* Zhantiev, 2001, and *Phradonoma spectum* Háva, 2006.
Keywords: Taxonomy, distribution, new species, Coleoptera, Dermestidae, Jordan, Israel.

Zusammenfassung

Eine neue Dermestiden-Art aus Jordanien und Israel, *Trogoderma schawalleri* **n. sp.**, wird beschrieben. Sieben Arten werden zum ersten Mal für Jordanien nachgewiesen: *Attagenus quadrimaculatus* Kraatz, 1858, *A. simonis* Reitter, 1881, *Anthrenus* (*Anthrenus*) *delicatus* Kiesenwetter, 1851, *A.* (*A.*) *munroi* Hinton, 1943, *Globicornis* (*Globicornis*) *picta* (Küster, 1851), *Orphilus beali* Zhantiev, 2001 und *Phradonoma spectum* Háva, 2006.

Contents

1 Introduction 1
2 Materials and methods 2
3 Taxonomy and faunistics 2
3.1 Description of *Trogoderma schawalleri* **n. sp.** 2
3.2 New records of Jordanian Dermestidae 4
4 References 6

1 Introduction

Dermestidae is a large family which currently comprises about 1.300 species and subspecies worldwide (Háva 2003, 2006a). Species of Dermestidae from Jordan are recorded in Bodenheimer (1937), Mroczkowski (1968) and Chikatunov (2000). During the determination of material deposited in the Staatliches Museum für Naturkunde Stuttgart, Germany, and material recently collected by a Czech ento-

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mologist in Jordan, the author found a new species and new faunistic records of seven species.

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2 Materials and Methods

The colour shades in the descriptions are classified according to PACLT (1958), the terminology of integumental structures follows HARRIS (1979). The locality labels of the material are cited in their original language (German or English). Remarks of the author are given in brackets "[ ]".

Abbreviations

EL	elytral length = distance from shoulder to apex of elytron
EW	elytral width = maximum elytral width
PL	pronotal length = maximum length, measured from anterior margin to posterior margin of pronotum
PW	pronotal width = maximum pronotal width
spec.	specimen(s)
TL	total length = distance from anterior margin of pronotum to apex of elytra

Acronyms of depositories

JHAC	Collection of JIŘÍ HÁVA (Praha)
SMNS	Staatliches Museum für Naturkunde, Stuttgart, Germany

3 Taxonomy and faunistics

3.1 Description of *Trogoderma schawalleri* n. sp.

Trogoderma testaceum Kalík (unpublished): SCHAWALLER (1994: 27), nomen nudum.
Trogoderma syriacum Dalla Torre, 1911: HÁVA et al. (2001: 99).

Holotype (♂): "Jordanien-Ost., Jerash, 14.VI.1968, J. KLAPPERICH leg." (SMNS).

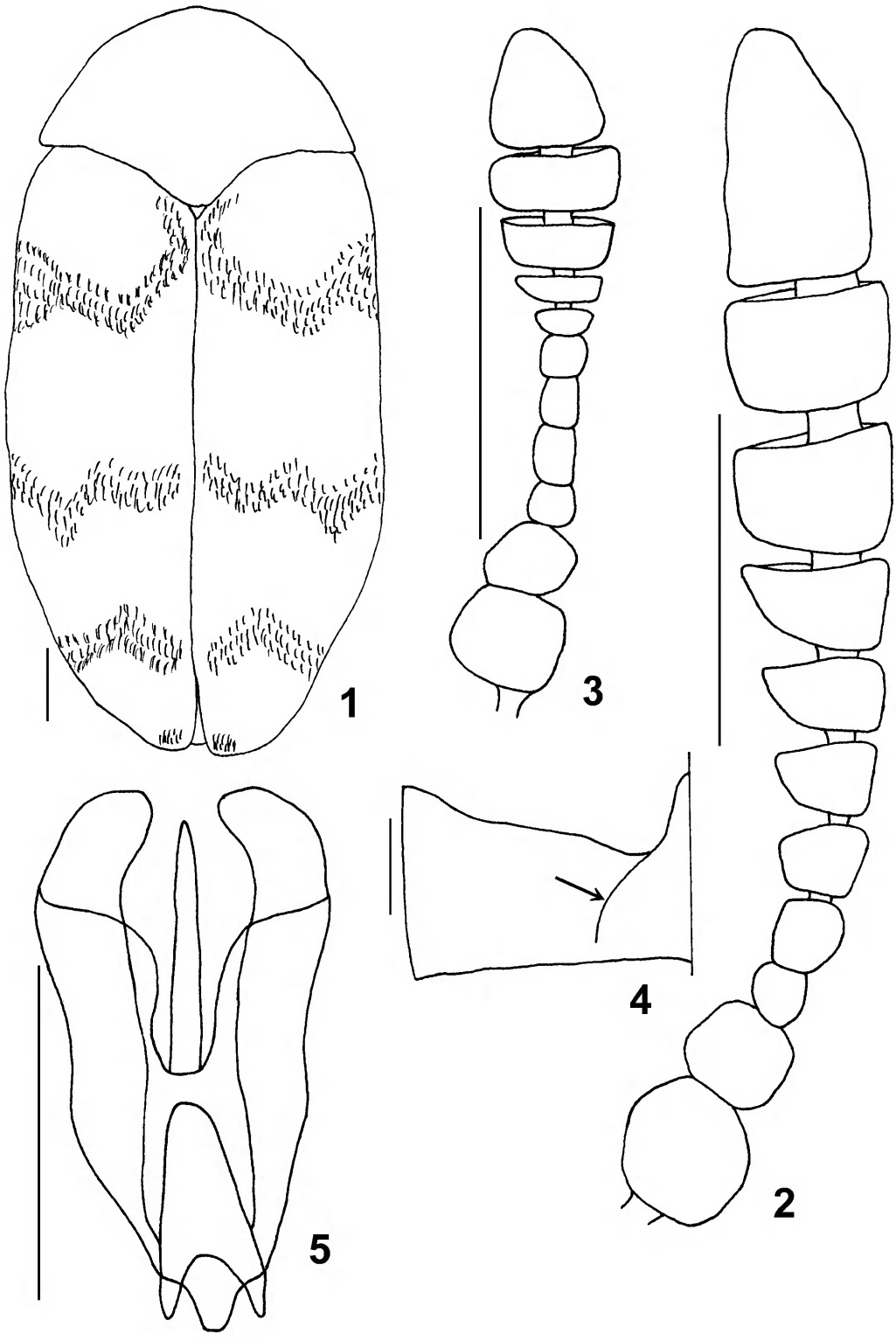
Paratypes: "Jordanien-Ost., Dehbeen b. Jerash, 20.IX.1965, J. KLAPPERICH leg.", 1 ♂, 1 ♀ (SMNS); "Jordanien, Romana, 24.IX.1967, J. KLAPPERICH leg.", 1 ♂, 1 ♀ (SMNS); "Jordanien, Fuhes b. Amman, 1000 m, 3.VIII.1956, J. KLAPPERICH leg.", 1 ♀ (SMNS); "Jordanien-West, Wadi El Kelt, 26.IX.1965, J. KLAPPERICH leg.", 1 ♂ (JHAC); "Jordanien, Wadi Sir b. Amman, 30.VIII.1966, J. KLAPPERICH leg.", 1 ♀ (SMNS); "Jordanien, Wald b. Jerash, 10.IV.1956, J. KLAPPERICH leg.", 1 ♂ (SMNS); "Jordanien, Madaba, 30.VIII.1968, J. KLAPPERICH leg.", 1 ♀ (SMNS); [Israel, autonomous territory Palestine] "Jericho, c Fára", 4 ♀♀ (3 SMNS, 1 JHAC).

Etymology

The species name is dedicated to the curator of Coleoptera of SMNS, Dr. WOLFGANG SCHAWALLER.

Description

Measurements (mm): Holotype: TL 2.55, PL 0.55, PW 1.13, EL 2.0, EW 1.3; Paratypes: TL 1.8–3.8, PL 0.45–0.65, PW 0.87–1.75, EL 1.35–3.15, EW 1.3–2.1. Dorsal integument of head and pronotum black, elytra brown. Ventral integument of thorax and abdomen black, antennae and legs brown. Pubescence of body brown



Figs. 1–5. *Trogoderma schawalleri* n. sp. – **1**. Habitus, dorsal aspect. **2**. Antenna of male. **3**. Antenna of female. **4**. Right half of first abdominal sternite; the arrow indicates the stria. **5**. Aedeagus. – Scales: 0.25 mm.

and white dorsally, white ventrally. Pubescence of head entirely white. Antenna 11-segmented (Fig. 2), covered with white pubescence. Disc of pronotum subhemispherical, black; its margins not broadly explanate, brown. Scutellum visible but minute. Elytra with punctures of disc subequal in size to those of pronotum. Pubescence of elytra consisting of brown and white setation, white setation forming patterns (Fig. 1): one small spot near scutellum, three transverse bands and one apical spot. Prosternum punctate, prosternal process moderately long, without median carina. Antennal fossa occupying all of hypomeron, deeply excavated, floor of fossa microscopically punctate. Mesosternal disc with punctures of disc subequal in size to those of pronotum and prosternum, metasternum without discal striae. First abdominal sternite with distinct oblique discal striae (Fig. 4). Aedeagus as in Fig. 5.

Female similar to male, but antennae different (Fig. 3).

Differential diagnosis

The new species is similar to *Trogoderma variabile* Ballion, 1878 and *T. granarium* Everts, 1898. It can be distinguished from both species by the following key:

1 First abdominal sternite with distinct oblique discal striae (Fig. 4). Integument of elytra brown, without distinct reddish patterns. Body length 1.8–3.8 mm. . . ***T. schawalleri* n. sp.**
– First abdominal sternite without discal striae **2**
2 Integument of elytra dark-brown to black with distinct reddish patterns. Body length 2.4–4.5 mm. . . . . ***T. variabile***
– Integument of elytra reddish-brown, without distinct patterns. Body length 1.8–3.0 mm. . . . . ***T. granarium***

Remarks

V. KALÍK (Pardubice) determined the material from Jordan and Israel (autonomous territory Palestine), deposited in SMNS, as *Trogoderma testaceum* n. sp., but this species has never been described. Based on the labels, SCHAWALLER (1994) erroneously cited this material as a valid species.

All specimens from Israel, recorded as *T. syriacum* Dalla Torre, 1911 in HÁVA et al. (2001) belong to the newly described species *T. schawalleri* n. sp., but they are not included in the type series because this material is now stored in the Tel Aviv University and was not studied again. The true *T. syriacum* belongs to the genus *Ctesias* (see HÁVA 2005).

Distribution

Israel, Jordan.

3.2 New records of Jordanian Dermestidae

All specimens are identified by the author of the present paper, and all represent first records for Jordan.

Attagenus quadrimaculatus Kraatz, 1858

Material examined: "Jordanien N, 10 km NNE of Jerash, 19.–20.IV.2002, M. SNÍŽEK leg.", 14 spec. (JHAC).

Distribution: Albania, Bosnia and Herzegovina, Bulgaria, Croatia, France, Greece, Macedonia, Slovenia, Turkey, Yugoslavia, and "Caucasus" (HÁVA 2003, 2006a); Jordan.

Attagenus simonis Reitter, 1881

Material examined: "Jordanien N, 10 km NNE of Jerash, 20.IV.2002, M. Snížek leg.", 30 spec. (JHAC).

Distribution: Egypt, Israel, and Syria (Háva 2003, 2006a); Jordan.

Anthrenus (Anthrenus) delicatus Kiesenwetter, 1851

Material examined: "Jordanien N, 10 km NNE of Jerash, 20.IV.2002, M. Snížek leg.", 23 spec. (JHAC).

Distribution: Southern Europe, Turkey, Algeria, Egypt, Morocco, Tunisia, "Caucasus", Iran, Israel, and Syria (Háva 2003, 2006a); Jordan.

Anthrenus (Anthrenus) munroi Hinton, 1943

Material examined: "Jordanien N, 10 km NNE of Jerash, 19.IV.2002, M. Snížek leg.", 1 spec. (JHAC).

Distribution: Bulgaria, Cyprus, France, Italy, Spain, Turkey, Ukraine, Algeria, Libya, Morocco, Tunisia, Israel, and Syria (Háva 2003, 2006a); Jordan.

Globicornis (Globicornis) picta (Küster, 1851)

Material examined: "Jordanien N, 10 km NNE of Jerash, 20.IV.2002, M. Snížek leg.", 3 spec. (JHAC).

Distribution: Albania, Armenia, Bulgaria, Bosnia and Herzegovina, Cyprus, Egypt, Greece, Hungary, Italy, Israel, Macedonia, Slovakia, Slovenia, Turkey, "Yugoslavia" (Háva 2003, 2006a); Jordan.

Orphilus beali Zhantiev, 2001

Material examined: "Jordanien N, 10 km NNE of Jerash, 20.IV.2002, M. Snížek leg.", 2 spec. (JHAC).

Distribution: Cyprus, France, Greece, Spain, Turkey, Israel, Lebanon, Syria (Háva 2003, 2006a); Jordan.

Phradonoma spectum Háva, 2006

Material examined: "Jordanien, Amman, 800 m, 30.VI.1977, J. Klapperich leg.", 18 spec. (15 SMNS, 3 JHAC); same data as before, but 19.VI.1956, 5 spec. (SMNS); "Jordanien, Arda Road, 700 m., 14.VI.1957, J. Klapperich leg.", 2 spec. (SMNS); "Jordanien-Ost., Dehbeen b. Jerash, 13.VI.1963, J. Klapperich leg.", 1 spec. (SMNS); "Jordanien, Fuhes b. Amman, 1000 m., 21.VI.1957, J. Klapperich leg.", 4 spec. (SMNS).

Remarks: In 1987 V. Kalík labelled all material recorded above from SMNS as *Phradonoma jordanicum* n. sp. This undescribed species is identical with the recently described *P. spectum* Háva, 2006 (Háva 2006b: 88) from Israel.

Distribution: Israel (Háva 2006b); Jordan.

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